Official copies of these procedures are maintained at this website. Before using a printed copy, verify that it is the most current version by checking the document issue date on this website. Signed copies of these official procedures are maintained at the Training Office.

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

9.5.5.b Examples Of Specific ALARA Work Practices

C-A OPM Procedures in which this Attachment is used.

9.5.5		

Hand Processed Changes

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Approved: _____Signature On File_____ _____
Collider-Accelerator Department Chairman Date

C. Schaefer

EXAMPLES OF SPECIFIC ALARA WORK PRACTICES

schedule work for longest cool down time (time since beam off)
keep a history of equipment malfunction
install quick-disconnects on vacuum system and magnet, water, and power cables
use radiation-hardened beam-line components
establish guidelines for area access based on radiation level
train on mock-up equipment prior to performing the work
design shielding for quick removal
use remote areas for storage of heavily irradiated equipment
assess personnel exposure data prior to work
reduce the density of beam-line components to reduce serviceability problems
use a sufficient number of radiation monitoring points in the pre-job radiation survey
select a trained and experienced work force
identify and coordinate resource requirements
perform ALARA pre-job review
plan access to and exit from the work area
provide for service lines (air, welding, ventilation)
provide communication
remove or shield sources of radiation
install temporary shielding
decontaminate
work in lowest radiation levels
perform as much work as practicable outside radiation areas
state requirements for tools
state staging requirements for materials, parts and tools
incorporate radiological control hold points
minimize discomfort of workers
inspect shielding after installation
conduct periodic radiation surveys during work
compare exposure received during installation of temporary shielding versus exposure saved by not installing temporary shielding
shield travel routes
shield components with abnormally high radiation levels
shield position occupied by worker
keep excess personnel out of radiation area
workers assist in RWP preparation
evaluate use of fewer workers